

**SEMICONDUCTOR LASER DEVICE**

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Inventor(s): TAMATOSHI KUNIYOSHI; others: 01  
Applicant(s): MITSUBISHI ELECTRIC CORP  
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**Abstract**

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**PURPOSE:**To make a constant light output of window side go out in a state having extensive return light by providing a lightreceiving element, through which a part of the light is received by making it as monitor light, at positions other than the rear of a chip in a package.

**CONSTITUTION:**A half mirror or prism 32 receives a light output thrown from the front end surface of a semiconductor laser chip 1 and throws a part of the light output on a monitor photo-diode 2 that is mounted at a wall face of cap 4. Futher, the other light output is thrown out on the outside through a window glass 3. In the case of a normal APC drive, the monitor photo-diode 2 can receive the light output thrown from the front end surface of laser chip as monitor light. Thus even in a state having extensive return light, a drive circuit keeps a front light output constant and even though it is applied to the sensors of various writings, readings, and the like, it is capable of holding stable laser oscillation characteristics.

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**(54) SEMICONDUCTOR  
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